

Approach: Read story of "Dutch Twins," and work out a bit of Holland in the school room.

Plan Christmas gift of blossoming bulbs. (Other bulbs, or potted plants and seedlings can be used to develop these same ideas.)

## PROBLEM

## CHILD PARALLEL

What are the best growing conditions for the bulb?

1. What is a bulb?

Experiment: Cut a bulb open to see what is inside. Find small plant, and layers of material around it.

(Ask pupils of intermediate grades to test layers for starch or plant food.)

2. Will the little plant grow without food?

Experiment: Carefully strip layers from sprouting bulbs, and place in water with pebbles. Result.

3. Will they grow without water?

Experiment: Give best of growing conditions all except water. Result.

4. Does the plant need sunshine?

Experiment: Put one in sunshine, another in absolute dark closet. Compare.

5. Does the plant need air?

Experiment: Raise bulb in airtight Mason jar. Result.

1. Storage of food in home.

2. Child's need of food.

3. Child's need of water.

4. Need of outdoor play.

5. Need of outdoor air.

Reading related to this project (children): Little Dog Ready, Styker—Holt; The House of Dogs, Asquith—Macmillan; Menagerie, Miller—Macmillan; For Days and Days, Wynne—Stokes; Millions of Cats, Gag—Coward; The F-U-N Book, Lorue—Macmillan; Child's Own Way, Wag and Pugg—Wheeler; Informational (for teacher); Pets and How to Care for Them—Crandall, New York Zoölogical Park.

### (3). Brief Record of Mid-Morning Lunch for Beginners

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The group consisted of children who would enter the regular first grade at the opening of school the following fall. They were average country children, from an average country home and community. As a central activity for the six weeks pre-primer period, the student-teachers selected the mid-morning lunch of milk and graham crackers as one which seemed to offer the richest returns in creating right habits, appreci-